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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/683,027	11/09/2001	John C. Malinowski	BUR920000228 6082  EXAMINER	
30449	7590 09/22/2005			
SCHMEISER, OLSEN + WATTS			THAI, LUAN C	
3 LEAR JET LANE SUITE 201		ART UNIT	PAPER NUMBER	
LATHAM,	NY 12110	2891		
			DATE MAN ED. 00/02/2004	

DATE MAILED: 09/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/683,027	MALINOWSKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Luan Thai	2891				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 20 Ju	ne 2005					
	action is non-final.					
3) Since this application is in condition for allowan		secution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>09 November 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)    Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)   Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da  5)  Notice of Informal P 6)  Other:					

## **DETAILED ACTION**

## Request for Continued Examination

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/20/05 has been entered.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin (6,180,426 of record) in view of Arledge et al. (6,493,198).

The figures and reference numbers referred to in this office action are used merely to indicate an example of a specific teaching and are not to be taken as limiting.

Regarding claims 1-33, Lin discloses a dual chip stack mounted on a module 320 (see figure 3), comprising: a semiconductor chip (310) including an integrated circuit having at least one first electrostatic discharge sensitive device (e.g., a transistor, Col. 8-9); a non-semiconductor chip (305), attached to the semiconductor chip (310), the non-

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semiconductor chip (305) having at least one second electrostatic discharge sensitive device (e.g., a transistor, Col. 8-9) and at least one first electrostatic discharge protection device (e.g., 414/418 in figures 4a-4b) electrically connected to the first electrostatic discharge sensitive device (via conductive bumps 384/315/394, see figure 3). Lin further teaches a second electrostatic protection device electrically connected to the second electrostatic discharge sensitive device (Col. 6, lines 9-67 and Col. 7, lines 1-67, Col. 8-9). Lin, however, does not explicitly teach the electrostatic protection device (ESD) being a spark gap having a substrate formed of an electrically insulating material.

A spark gap, as disclosed by Arledge et al. (figures 1-3), being formed on a dielectric substrate (20) (Col. 2, lines 31-67), however, is commonly used in semiconductor art, as an electrostatic protection device (ESD), (see Arledge et al.' Col. 2-3). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the spark gap as an electrostatic protection device (ESD) in Lin's device since such spark gap is conventionally used in semiconductor art as an electrostatic protection device (ESD), as taught by Arledge et al.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is 571-272-1935. The examiner can normally be reached on 6:30 AM - 5:00 PM, Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bradley W. Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Luan Thai

Primary Examiner Art Unit 2891

September 19, 2005